

Patent

Case No.: 58797US002

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:

ROSENFLANZ, ANATOLY Z.

Application No.:

10/739439

Group Art Unit:

1755

Filed:

December 18, 2003

Examiner:

Unknown

Title:

TRANSPARENT FUSED CRYSTALLINE CERAMIC, AND METHOD OF

MAKING THE SAME

### **INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents P.O. Box 1450

P.O. Box 1450 Alexandria, VA 22313-1450 **CERTIFICATE OF MAILING** 

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

( Jun 9 2001

Joh Henry

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner. Copies of any cited foreign patents, non-patent literature, and unpublished US application documents are enclosed. Pursuant to the waiver in the Pre-OG Notice, dated July 11, 2003, copies of US patents and published US patent applications are no longer required and are not enclosed. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

It is believed that no fee is due; however, in the event a fee is required, please charge the fee to Deposit Account No. 13-3723.

Respectfully submitted,

Date

Gregory D. Allen, Reg. No.: 35,048

Telephone No.: (651) 736-0641

Office of Intellectual Property Counsel 3M Innovative Properties Company Facsimile No.: 651-736-3833

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/739439
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Attorney Case Number	58797US002

U.S. Patent Documents					
Exam. Init.*	Cite No.	Document Number  Doc. Number-(Kind Code if Known)	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	C1	Aguilar, E.A., "Processing and crystallization of rapidly solidified Al <sub>2</sub> O <sub>3</sub> -Y <sub>2</sub> O <sub>3</sub> fibres", British Ceramic Transactions, 2000, Vol. 99, No. 6, pp. 256-259.		
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Application Number	10/739439 December 18, 2003	
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Art Unit	1755	
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the symposum, catalog, etc.) asse, page(s), volume-assue number(s), publisher, lyadrot country where published  C4 Chen, Zan-Hwey et al., "Microstructures of laser-treated Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> -CeO <sub>2</sub> composites," Material Science & Engineering A (Structural Materials: Properties, Microstructure and Processing), 1995 Vol. A196, No. 1-2, pp. 253-260.  C5 "China: Oversupply Puts Rare Earths Projects On Hold", Industrial Minerals, August, 1997, 1 page (6/20/01 for web address "http://ptg.djin.com/ccroot/asp/publib/story.asp", Asia Pulse, 1/9/01, 1 per C7 "China's Rare Earth Industry In the Doldrums", Dow Jones Interactive Internet Printout on 6/20/03 web address "http://ptg.djinr.com/ccroot/asp/publib/story.asp", Asia Pulse, 1/28/99, 2 pages.  C8 "China Rare Earth Information", China Rare Earth Information Center, Vol. 6, No. 4, August 2006 pages.  C9 Coutures et al., "PRODUCTION AND STUDIES OF ALUMINA BASED REFRACTORY GLASS, Mat. Res. Bull., Vol. 10, No. 6, 1975, pp 539-546.  C10 Dialog © file 319: Chem Bus NewsBase © 2001 Royal Soc Chemistry. Abstract for "China: Oversupply Puts Rare Earths Projects On Hold", Industrial Minerals in 359, p. 10.  C11 "ELEMENTS: China to Impose Quotas on Rare Earth Exports", Dow Jones Interactive Internet Printout on 6/20/01 for web address "http://ptg.djinr.com/ccroot/asp/publib/story.asp"; Chemical Business NewsBase, 2/4/99, 1 page.  C12 Figs. 311, 346, 350, 354-56, 373, and 716, Phase Diagrams For Ceramists, The American Ceramic Society, 1964, pp. 122, 136, 138, 140, 144, 248.  C13 Figs. 2340-44, 2363, 2370, 2374-75, 2382-83, 2385, 2387, 2390, and 2392, Phase Diagrams For Ceramists, 1969 Supplement, The American Ceramic Society, 1969, pp. 95-6, 100, 102-03, 105  C14 Figs. 4366-71, 4377-78, 4404-05, 4417, 4426, 4430, 4433, 4437, 4440, 4444, 4457, 4572, and 4 Phase Diagrams For Ceramists, 1975 Supplement, The American Ceramic Society, 1981, pp. 29, 125, 127, 129-31, 133, 135-36, 147, 152, 157, 159-60, 163-64, 166, 172-73, 238, 257.  C15 Figs. 6042, 5211, 5217, 5224, 5228, 5228, 5232,	ZRADE!	MARK	OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS
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<ul> <li>Phase Diagrams For Ceramists, Vol. IV, The American Ceramic Society, 1981, pp. 29, 125, 127, 129-31, 133, 135-37, 139, 141, 143, 220, 228.</li> <li>C16 Fig. 6464, Phase Diagrams For Ceramists, Vol. VI, The American Ceramic Society, 1981, p. 162</li> <li>C17 Figs. 9262, and 9264, Phase Diagrams For Ceramists, Vol. XI, Oxides, The American Ceramic Society, 1995, pp. 105-06.</li> <li>C18 Harris et al., "DURABLE 3—5 μm TRANSMITTING INFRARED WINDOW MATERIALS," Infrare Physics &amp; Technology 39, 1998, pp. 185-201</li> </ul>		C14	Figs. 4366-71, 4377-78, 4404-05, 4417, 4426, 4430, 4433, 4437, 4440, 4444, 4457, 4572, and 4602, <u>Phase Diagrams For Ceramists, 1975 Supplement,</u> The American Ceramic Society, 1975, pp. 130-32, 135-36, 147, 152, 157, 159-60, 163-64, 166, 172-73, 238, 257.
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First Named Inventor	Rosenflanz, Anatoly Z.	
Art Unit	1755	
Examiner Name		
Attorney Case Number	58797US002	

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Application Number 10/739439

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First Named Inventor Rosenflanz, Anatoly Z.

Art Unit 1755

Examiner Name

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<b>1</b>	OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS  Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published				
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& TRAD		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS
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	C75	U.S. Application entitled "Use of Ceramics In Dental And Orthodontic Applications", filed February 5, 2003, having U.S. Serial No. 10/358,856 (Attorney Docket No. 58350US002)
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	C79	U.S. Application entitled "Methods of Making Ceramics Comprising $Al_2O_3$ , REO, $ZrO_2$ and/or $HfO_2$ and $Nb_2O_5$ and/or $Ta_2O_5$ ", filed September 18, 2003, having U.S. Serial No. 10/666615 (Attorney Docket No. 58354US002)
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	C84	U.S. Application entitled "Method of Making Abrasive Particles," filed December 18, 2003, having U.S. Serial No. 10/739624 (Attorney Docket No. 58796US002)
	C85	U.S. Application entitled "Method of Making Abrasive Particles", filed December 18, 2003, having U.S. Serial No. 10/739440 (Attorney Docket No. 59437US002)
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	C87	U.S. Application entitled "Method of Making Abrasive Particles", filed December 18, 2003, having U.S. Serial No. 10/73944 (Attorney Docket No. 59439US002)
	C88	U.S. Application entitled "Powder Feeding Method and Apparatus", filed December 18, 2003, having U.S. Serial No. 10/739233 (Attorney Docket No. 59440US002)
	C89	U.S. Application entitled "Agglomerate Abrasive Grain and a Method of Making the Same", filed February 11, 2004, having U.S. Serial No. 10/776156 (Attorney Docket No. 55304US016)

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**Date Considered:**